

ABSTRACT OF THE DISCLOSURE

A compressor unit including a centrifugal compressor for compressing a gas and an electric motor with a stator and a rotor for driving the compressor. The compressor and the electric motor are accommodated in a common gastight housing , provided with a gas inlet and a gas outlet .

The stator is accommodated in a separate stator space which is delimited by a wall section, surrounding the stator , of the housing , a gastight partition which extends freely between the stator and the rotor of the electric motor , and at least one end wall which extends between the partition and the housing of the compressor unit.

The partition is of a material of such high strength that it remains clear of the stator and the rotor under working pressures of the gas.

FIG. 2